



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 6

Complete If Known

Application Number	10/070,796
Filing Date	December 16, 2002
First Named Inventor	KEOWN, Paul
Art Unit	Unknown 1634
Examiner Name	Unknown Goldberg
Attorney Docket Number	UBC-0003

RECEIVED
MAR 10 2003
TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JP	1	US-5,972,604		10-26-1999	SANTAMARIA <i>et al.</i>	
	2	US-5,965,787		10-12-1999	LUTHRA <i>et al.</i>	
	3	US-5,698,195		12-16-1997	LE <i>et al.</i>	
	4	US-5,645,994		07-08-1997	HUANG	
	5	US-5,627,264		05-06-1997	FODOR <i>et al.</i>	
	6	US-5,399,346		03-21-1995	ANDERSON <i>et al.</i>	
	7	US-5,166,320		11-24-1992	WU and WU	
	8	US-4,980,286		12-25-1990	MORGAN and MULLIGAN	
	9	US-4,868,116		09-19-1989	MORGAN and MULLIGAN	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
JP	10	WO	97/38310		10-16-1997	SUCIU-FOCA		<input type="checkbox"/>
	11	WO	96/40989		12-19-1996	ALLIBERT <i>et al.</i>		<input type="checkbox"/>
	12	WO	95/05452		02-23-1995	BAETGE <i>et al.</i>		<input type="checkbox"/>
	13	WO (GB)	95/29235 (2288807)		11-02-1995	BELL <i>et al.</i>		<input type="checkbox"/>
	14	WO	92/07573		05-14-1992	RAFIELD <i>et al.</i>		<input type="checkbox"/>
	15	WO	89/07136		08-10-1989	WILSON and MULLIGAN		<input type="checkbox"/>
	16	WO	89/05345		06-15-1989	WILSON and MULLIGAN		<input type="checkbox"/>
	17	WO	89/02468		03-23-1989	MULLIGAN and WILSON		<input type="checkbox"/>
	18	EPO	0 896 999		02-17-1999	TOYOSAKI-MAEDA <i>et al.</i>		<input type="checkbox"/>

Examiner
Signature

G. Goldberg

Date
Considered

1/9/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Unsaved Document



PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0022
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

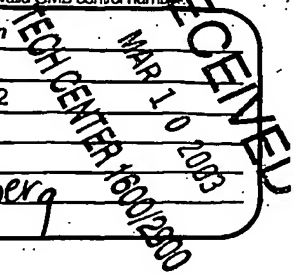
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 6

Complete if Known

Application Number	10/070,796
Filing Date	December 16, 2002
First Named Inventor	KEOWN, Paul
Art Unit	UNKNOWN 1634
Examiner Name	Unknown goldberg
Attorney Docket Number	UBC-0003



OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JG	19	ACSADI et al. (1991) Nature 352:815-818.	
	20	ANDERSON (2000) Science 288:627-9.	
	21	ARMENTANO et al. (1990) Proc. Natl. Acad. Sci. USA 87:6141-6145.	
	22	AUSUBEL FM. et al. (eds.) "Current Protocols in Molecular Biology" Greene Publishing Associates, Sections 9.10-9.14.	
	23	AWATA T. et al. (1994) Diabetologia 37:1159-1162.	
	24	BOEHM U. et al. (1997) Annu Rev Immunol 15:749-95.	
	25	BOHME U. et al. (1985) J. Immunol. 135:2149-2155.	
	26	BERKNER et al. (1988) BioTechniques 6:616.	
	27	CAVAZZANA-CALVO et al. (2000) Science 288:669-72.	
	28	CERNA M. et al. (1995) Arch. Immunol. Ther. Exp. (Wasz) 43(2):139-144.	
	29	CHOWDHURY et al. (1991) Science 254:1802-1805.	
	30	CLAPP DW. et al. (1991) Blood 78: 1132-1139.	
	31	COMBE et al. (1995) Br. J. Rheumatol. 34: 529-534.	
	32	CRISTIANO et al. (1993) Proc. Natl. Acad. Sci. USA 90:2122-2126.	
	33	CURIEL et al. (1991) Proc. Natl. Acad. Sci. USA 88:8850-8854.	

Examiner
Signature

J. Goldberg

Date
Considered

1/9/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Unsaved Document



PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 6

Complete if Known

Application Number	10/070,796
Filing Date	December 16, 2002
First Named Inventor	KEOWN, Paul
Art Unit	Unknown 1634
Examiner Name	Unknown
Attorney Docket Number	UBC-0003

RECEIVED
MAR 10 2003
TECH CENTER 1600/2900

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
QJ	34	DAI et al. (1992) Proc. Natl. Acad. Sci. USA 89:10892-10895.	
	35	DANOS and MULLIGAN (1988) Proc. Natl. Acad. Sci. USA 85:6460-6464.	
	36	DUPONT B. (1989) Hum. Immunol. 26:3-14.	
	37	EGLITIS et al. (1985) Science 230:1395-1398.	
	38	FARRAR MA. and SCHREIBER RD. (1993) Annu Rev Immunol. 11:571-611.	
	39	FELDMANN M. et al. (1996) Annu Rev Immunol. 14:397-440.	
	40	FELDMANN M. et al. (1996) Cell 85(3):307-10.	
	41	FERRY et al. (1991) Proc. Natl. Acad. Sci. USA 88:8377-8381.	
	42	FLOTTE et al. (1993) J. Biol. Chem. 268:3781-3790.	
	43	FLOTTE et al. (1992) Am. J. Respir. Cell. Mol. Biol. 7:349-356.	
	44	GILES and CAPRA (1985) Adv. Immunol. 37:1-71.	
	45	GREGERSON et al. (1987) Arthritis Rheum 30:1205-1213.	
	46	HERMONAT et al. (1984) Proc. Natl. Acad. Sci. USA 81:6466-6470.	
	47	HERZ and GERARD (1993) Proc. Natl. Acad. Sci. USA 90:2812-2816.	
	48	HUBER et al. (1991) Proc. Natl. Acad. Sci. USA 88:8039-8043.	

Examiner
Signature

J. Goldberg

Date
Considered

1/9/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
Unsaved Document



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.
Substitute for form 1449A/PTO

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
A collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 6

Complete If Known

Application Number	10/070,796
Filing Date	December 16, 2002
First Named Inventor	KEOWN, Paul
Art Unit	Unknown 1634
Examiner Name	Unknown Goldberg
Attorney Docket Number	UBC-0003

REC'D
MAR 10 2003
TECH CENTER 1000/2000

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JY	49	HUTCHINSON et al. (1999) <i>Transplant Proc.</i> , 31(1-2): 734-736.	
	50	HWU et al. (1993) <i>J. Immunol.</i> 150:4104-4115.	
	51	JACOB CO. et al. (1993) <i>Immunogenetics</i> 38:251-257.	
	52	JOHN S. et al. (1998) <i>Ann. Rheum. Dis.</i> 57:361-365.	
	53	JOHN S. et al. (1998) <i>Cytokine</i> 10(6):466-470.	
	54	JOHN S. et al. (1997) <i>Am. J. Hum. Gen.</i> 61(4)suppl. abstract 2341.	
	55	KAY et al. (1992) <i>Human Gene Therapy</i> 3:641-647.	
	56	KHANI-HANJANI et al. (1998) Abstract 293, Poster Session B, American College of Rheumatology 62nd National Meeting.	
	57	KHANI-HANJANI et al. (2000) <i>Lancet</i> 356:820-825.	
	58	LANG B. et al. (1990) <i>Zeitschrift fur Rheumatologie</i> 49(4):197-207. (abstract only - German article)	
	59	LEMARCHAND et al. (1992) <i>Proc. Natl. Acad. Sci. USA</i> 89:6482-6486.	
	60	MACHOLD et al. (1992) <i>Ann. Rheum. Dis.</i> 51(9):1039-43.	
	61	McLAUGHLIN et al. (1989) <i>J. Virol.</i> 62:1963-1973.	
V	62	MILLER AD. (1990) <i>Blood</i> 76(2):271-278.	
	63	MOLKENTIN J. et al. (1993) <i>Annals Rheum. Dis.</i> 52:610-612.	

Examiner
Signature

J. Goldberg

Date
Considered

1/9/05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
Unsaved Document



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 6

Complete If Known

Application Number	10/070,796
Filing Date	December 16, 2002
First Named Inventor	KEOWN, Paul
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	UBC-0003

RECEIVED
MAR 10 2003
TECH CENTER 1600/2900

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JG	64	MUZYCZKA et al. Curr. Topics in Micro. and Immunol. (1992) 158:97-129.	
	65	NEPOM et al. (1996) <i>J. Rheumatol.</i> 23 (suppl 44): 5-9.	
	66	QUANTIN et al. (1992) Proc. Natl. Acad. Sci. USA 89:2581-2584.	
	67	REVEILLE (1998) <i>Curr. Op. Rheumatol.</i> 10: 187-200.	
	68	ROSENFELD et al. (1991) Science 252:431-434.	
	69	ROSENFELD et al. (1992) Cell 68:143-155.	
	70	RUIZ-LINARES A, (1993) Hum Mol Genet 2(9):1508.	
	71	SAMULSKI et al. (1989) J. Virol. 63:3822-3828.	
	72	SCHIFF (1997) <i>Am. J. Med.</i> 102 (suppl 1A): 11S-15S.	
	73	TRATSCHIN et al. (1985) Mol. Cell. Biol. 5:3251-3260.	
	74	TRATSCHIN et al. (1984) Mol. Cell. Biol. 4:2072-2081.	
	75	TRATSCHIN et al. (1984) J. Virol. 51:611-619.	
	76	TROWSDALE et al. (1985) Immunol. Rev. 85:5-43.	
	77	van BEUSECHEM et al. (1992) Proc. Natl. Acad. Sci. USA 89:7640-7644.	
✓	78	van der HORST-BRUINSMA et al. (1999) Human Immunology 60:152-158.	

Examiner
Signature

J. Goldberg

Date
Considered

1/9/05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Unsaved Document



PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

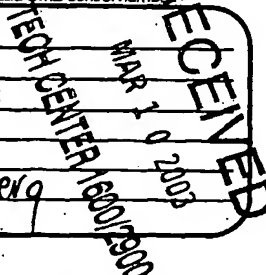
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 6

Complete if Known

Application Number	10/070,796
Filing Date	December 16, 2002
First Named Inventor	KEOWN, Paul
Art Unit	Unknown 1634
Examiner Name	Unknown Goldberg
Attorney Docket Number	UBC-0003



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
J. Goldberg	79	WEYAND and GORONZY (1997) J. Mol. Med. 75:772-785.	
	80	WEYAND and GORONZY (1995) Curr. Op. Rheumatol. 7: 206-213.	
	81	WILLIAMS et al. (1993) DNA and Cell Biology 12(5):425-434.	
	82	WILSON et al. (1992) J. Biol. Chem. 267:963-967.	
	83	WILSON et al. (1988) Proc. Natl. Acad. Sci. USA 85:3014-3018.	
	84	WOLFF et al. (1990) Science 247:1465-1468.	
	85	WONDISFORD et al. (1988) Mol. Endocrinol. 2:32-39.	
	86	WU G. and WU CH. (1988) J. Biol. Chem. 263:14621-14624.	
	87	WUCHERPFENNIG et al. (1995) Proc. Natl. Acad. Sci. 92:11935-11939.	
	88	ZANELLI et al. (1998) Immunogenetics 48:394-401.	
	89	ZANELLI et al. (1998) Abstract 174, Poster Session A, American College of Rheumatology 62nd National Meeting.	
	90	ZANELLI et al. (1997) J. Immunol 158:3545-3551.	

Examiner
Signature

J. Goldberg

Date
Considered

1/9/05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
Unsaved Document